IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Ashkenazi et al.	Attorney's Docket No: 39780-2630P1C4
Serial No:	09/978,191	Group Art Unit: 1647
Filed:	October 15, 2001	Examiner: O Hara, Eileen B

For: **SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME**

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

DECLARATION OF AUDREY GODDARD, Ph.D., PAUL J. GODOWSKI, Ph.D., AUSTIN GURNEY, Ph.D., and WILLIAM I. WOOD, Ph.D. UNDER 37 CFR 1.131

We, Audrey Goddard, Ph.D., Paul J. Godowski, Ph.D., Austin Gurney, Ph.D., and William I. Wood, Ph.D. do hereby declare and say as follows:

1. We are the inventors of the above-identified application.

2. We have read and understood the claims pending in this application, and are aware that the claims have been rejected as anticipated by Holtzman *et al.*, U.S. Published Patent Application 20020028508, with effective priority date April 23, 1998 (09/065,363), and Sheppard *et al.*, U.S. Published Patent Application 20020028508, with effective priority date June 18, 1997 (09/050,143)

3. We conceived and reduced to practice the polypeptide comprising an amino acid sequence of residues 35-273 of SEQ ID NO:506 claimed in the above-identified application in the United States prior to June 18, 1997.

4. At the time the above polypeptide was cloned and sequenced, one of the inventors, Austin Gurney, was responsible for overseeing the cloning of cDNAs which encoded novel polypeptides, including the cDNA encoding the polypeptide comprising an amino acid sequence of residues 35-273 of SEQ ID NO:506.

Best Available Copy

5.   At the time the above polypeptide was cloned and sequenced, one of the inventors, Audrey Goddard, was, and still is, responsible for overseeing the sequencing of nucleotides encoding novel polypeptides, including the polypeptide having an amino acid sequence of residues 35-273 of SEQ ID NO: 506 as claimed in the above-identified application.

6.   At the time the nucleotide encoding the above polypeptide was cloned and sequenced, one of the inventors, William I. Wood, was, and still is, responsible for overseeing the homology searches for novel polypeptides, including that for the polypeptide having an amino acid sequence of residues 35-273 of SEQ ID NO: 506 as claimed in the above-identified application.

7.   A cDNA clone, referred to as DNA30943-1163 in the above-identified application, was identified as encoding the claimed polypeptide.

8.   The full length sequence of the cDNA clone, DNA30943-1163, is shown in Figure 1 of the above-identified application. The amino acid sequence of the claimed polypeptide is shown in Figure 213 (residue 35-273 of SEQ ID NO: 506). The cDNA sequence encoding the claimed polypeptide has 722 nucleotide residues and is shown in Figure 212 (nucleotides 500-1222 of SEQ ID NO: 505) of the above-identified application. The claimed polypeptide has 238 amino acid residues, and is only slightly different from PRO213 at the N-terminal. That portion of PRO213, which overlaps with the claimed polypeptide of the above-identified application, is significantly homologous with the human growth arrest-specific 6 (gas6) protein.

9.   Copies of the pages from the GSeqEdit database which report the cloning, sequencing and functional data for the PRO213 polypeptide sequence, including its homology to human gas6, as well as the cloning, and sequencing data for the nucleic acid sequence encoding the PRO213 polypeptide are attached to this declaration (with the dates redacted) as Exhibit A. PRO213 comprises the amino acid sequence of residues 35-273 of SEQ ID NO: 506 as claimed in the present invention.

10.   The GSeqEdit report shows the full-length nucleic acid sequence for DNA30943-1106 (identified as "DNA30943") and the full-length PRO213 polypeptide encoded

by DNA30943. Both the DNA30943 and the PRO213 polypeptide sequences and the homology of PRO213 to human gas6 were obtained prior to June 18, 1997.

11.   The DNA sequence of nucleotides 498 to 1216 of the DNA 30943 sequence shown in the GSeqEdit report is identical to that of nucleotides 500-1222 of SEQ ID NO:505 disclosed in the above-identified application.

12.   The beginning of the cDNA sequence corresponding to nucleotides 500-1222 of SEQ ID NO:505 in the above-identified application is shown on page 6 of the GSeqEdit database report. The location of nucleotide 500 of SEQ ID 505 is marked with an arrow. The location of the nucleotide 1222 of SEQ ID NO:505 is shown on page 12 and is marked with an arrow.

13.   The sequence of amino acid residues 54 to 295 of PRO213 polypeptide shown in the GSeqEdit report is identical to that of amino acids 35-273 of SEQ ID NO: 506 disclosed in the above-identified application.

14.   The amino acid residues 35 to 273 of SEQ ID NO: 506 are shown in the GSeqEdit report starting on page 6 and continuing until page 12 of the report.

15.   Exhibit A clearly shows that both the amino acid sequence of amino acids 35 to 273 of SEQ ID NO: 506 and the nucleotide sequence encoding thereof disclosed in the above-identified application, as well as the homology of the claimed polypeptide to human gas 6 were obtained prior to **June 18, 1997**.

16.   We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information or belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful statements may jeopardize the validity of the application or any patent issued thereon.

_____   _____
Audrey Goddard   Date

_____   _____
Paul J. Godowski, Ph.D.   Date

3

_____   _____
Austin Gurney, Ph.D.   Date

_____   _____
William I. Wood, Ph.D.   Date

>Wednesday, September 22, 2004
>DNA30943 [Full]
>1077 Sites [All Sites]
> [DNA30943], jean
> no stop in front

```
                                        scrFI[M.hpaII-]

                                        ncil

                                        mspI

                                        hpaII     mnlI

                                        dsaV  sau3AI  rmaI

                                        bssKI mboI/ndeII[dam-]

                                        xmaI/pspAI    maeI

sau96I[dcm-]                            smaI    dpnII[dam-]

avaI[dcm-]                              scrFI[M.hpaII-]

scrFI[dcm-]                             ncil    dpnI[dam+]

pspGI                     dsaV  nlaIV xbaI   sau3AI taqI          hgaI

mvaI             tsp509I[M.ecoRI-]  bfaI mboI/ndeII[dam-]         thaI    mwoI

ecoRII[dcm-]          ecoRI bssKI bstYI/xhoII dpnII[dam-]         fnuDII/mvnI      sau96I[M.ha

dsaV[dcm-]       apoI  bsaJI bamHI hpy188III mnlI                 bstUI  bglII[M.haeIII-]  bce

bstNI     mnlI        taqI[M.claI-? bsaJI alwI[dam-] dpnI[dam+]  drdI  bsh1236I  mwoI   hpyCH4

bssKI[dcm-] hpyCH4V   claI/bsp106    avaI[M.hpaII-]  alwI[dam-]   taqI  mluI eciI  cac8I  bsgI

apyI[dcm+] bsgI bsaJI bspDI[dam-] bsaJI alwI[dam-] bstYI/xhoII mnlI   aflIII aciI aluI haeIII/pal:

1 CCAGGTCCAA CTGCACCTCG GTTCTATCGA TTGAATTCCC CGGGGATCCT CTAGAGATCC ACCCACGCGT GGCCCTGCAC
  GGTCCAGGTT GACGTGGAGC CAAGATAGCT AACTTAAGGG GCCCCTAGGA GATCTCTAGG GAGCTGGGAGC TGGGTGCGCA GGCGGGTTCGA CCGGGACGTG
```

GSecEdit, DNA30943 [Full], page 1

```
                                    xcnI
                                    scrFI[dcm-]
                                    pspGI    bsrI        sau96I[M.haeIII-]
                          scrFI[dcm-]   mvaI  haeIII/palI   nlaIV
                          pspGI                            haeIII/palI
                          mvaI bspMI   ddeI    ecoRII[dcm-]  ecoO109I/draII
                          ecoRII[dcm-] bspCNI nlaIV  dsaV[dcm-]   mnlI
                          dsaV[dcm-]   mnlI mnlI      bstNI eaeI
            mwoI          bstXI[M.haeIII-] hpy188III  bssKI[dcm-]  ddeI        sau96I
            hpyCH4V       bstNI        eco81I banI mnlI  apyI[dcm+]  bspCNI bslI  avaII
  tseI      nlaIV         bssKI[dcm-]  bsu36I/mstII/sauI  fnu4HI/bsoFI bsu36I/mstII/sauI  rmaI   cfrI    eco81I bslI   nlaIV
  fnu4HI/bsoFI            apyI[dcm+]   haeIII/palI  bslI  aciI tspRI haeIII/palI   maeI
  bbvI      mnlI          haeIII/palI  sau96I[M.haeIII-] bpmI/gsuI[dcm-] sau96I[M.haeIII-]  bfaI
:01 GGCTGCAAGG GAGGCCCTG TGGACAGGCC AGGCAGGTGG GCCTCAGGAG GTGCCTCCAG GCGGGCCAGTG GGCCTGAGGC CCCAGCAAGG GCCAGGGTCC
    CCGACGTTCC CTCCGAGGAC ACCTGTCCGG TCCGTCCACC CGGAGTCCTC CACGGAGGTC CGCCGGAGTC GGGTCGTTCC CGATCCCAGG
```

GSeqEdit, DNA30943 [Full], page 2

```
                                                          scrFI[M.hpaII-]
                                                          nciI
                                  bspI286                 sau96I[dcm-]
                          nscI/balI    bmyI               scrFI[dcm-]
scrFI[dcm-]               eaeI         banII              pspGI   nspI
pspGI              nlaIII        scrFI[dcm-]              mvaI    hpaII
mvaI        mwoI styI            pspGI                    ecoRII[dcm-]
ecoRII[dcm-]       bglI[M.haeIII-]   mvaI                 dsaV[dcm-]
dsaV[dcm-]  eae:  ncoI[M.haeIII-]   mwoI                  bstNI   dsaV
bstNI       cfrI dsaI       ecoRII[dcm-]   sfaNI          bssKI[dcm-]
bssKI[dcm-] fnu4HI/bsoFI    dsaV[dcm-]    mwoI            bslI[dcm-]
apyI[dcm+]  aciI  btgI/bstDSI bstNI   tseI               apyI[dcm+]  mnlI       sau96I[M.ha
      bsmEI  mspAlI/nspBII haeIII/palI nlaIV   mwoI   tseI    bslI avaiI[dcm-][M.hpaII-]   bslI
bsrI bsaJI   tseI sfiI bsaJI   bssKI[dcm-] fnu4HI/bscFI                    nlaIV   bslI
bslI[dcm-]   fnu4HI/bsoFI cfrI   bsaJI bpmI/gsuI[dcm-] fnu4HI/bsoFI bssKI
bpmI/gsuI[dcm-]  bbvI haeIII/palI bslI   apyI[dcm+] bbvI   bbvI bsaJI   mwoI   haeIII/palI
20: ATCCCCAGTC CCAGGACACA GCACCGGCCA CCATGGCCAC GCCTGGGCTC CAGCAGCATC AGCAGCCCCC AGCAGCCGGG GGCCCCCACC
    TAGAGGTCAG GGTCCTGTGT CGTCGCCGGT GGTACCGGTG CGGACCCGAG GTCGTCGTAG TCGTCGGGGG TCCTGGCCCC TCCGTGTCCA CCGGGGGTGG
                                                          deleted a G -goddard 6/8/98^
```

GSeqEdit, DNA30943 [Full], page 3

```
                                           scrFI[dcm-]
                    scrFI[dcm-]            pspGI
                    pspGI                  mval
          alu⁻      mval                   ecoRII[dcm-]
     mrlI alwNI[dcm-]  ecoRII[dcm-]        dsaV[dcm-]
     bseRI alw26I/bsmAI  scrFI[M.hpaII-]   bstNI
mspI tseI           nciI    aciI haeIII/palI   bssKI[dcm-]
hpaII mwoI          mspI    eciI dsaV[dcm-]     apyI[dcm+]
scrFI[M.hpaII-]     hpaII   mnlI bstNI
nciI fnu4HI/bsoFI bsⅠI dsaV     tfiI ecoNI bssKI[dcm-]    bslI
dsaV  bstAPI      bslI bssKI fokI bsaXI  bseRI  apyI[dcm+]  mnlⅠ    aciI  mnlI  haeIII/
bssKI bbvI        bsⅠI bsaJI bstF5I hinfⅠ bslI[dcm-] bslI  bseRI   haeIII/palI bpmI/gsuI[dcm-];

301 ACCCGGAGGA GCAGCTCCTG CCCCTGTCCG GGGATGACT GATTCTCCTC CGCCAGGCCA CCCAGAGGAG AAGGCCACCC CGCCTGGAGG CACAGGCCAT
    TGGGCCTCCT CGTCGAGGAC GGGGACAGGC CCCTACTGA CTAAGAGGAG GCGGTCCGGT GGGTCTCCTC TTCCGGTGGG GCGGACCTCC GTGTCCGGTA

  1                  M  T  D  S  P  P  P  G  H  P  E  E  K  A  T  P  P  G  G  T  G  H
  1                                                                                 M

                                                                          Correct ORF^
```

bceAI
haeIII/palI
mcrI
eagI/xmaIII/eclXI
eaeI
cfrI
bsiEI
mspI[M.haeIII-]
hpaII
scrF[I[M.hpaII-]
nciI
dsaV
bsaKI
sau96I[M.haeIII-]
haeIII/palI
mspI[M.haeIII-]
hpaII bslI
cfr10I/bsrFI
nwoI bssKI

bsp
bmy
ban
scrFI
nciI
mspi
hpaII
dsaV

cac8I
hglAI/aspHI
bsp1286
bsiHKAI
tspRI fnu4HI/bsoFI
btsI aciI bmyI

bsp1286   nwoI
bmyI ddeI mnlI tseI
banI hpy188III fnu4HI/bsoFI
mnlI bspCNI nbvI

401 GAGGGGCTCT CAGGAGGTGC TGCCTGATGTG GCTTCTGGTG GCGGCACAGA GCACGCCTAC CGGCCCGGCC GTAGGGGTGTG TGCTGTCCGG
    CTCCCCGAGA GTCCTCCACG ACGACTACAC AACCGTCACC CGCCGTGTCT CGTGCGGATG GCCGGGCCGG CATCCCACAC ACGACAGGCC

23 E G L S G G A A D V A S G V G S G R H R A R L P A R P Q
2 R G S Q E V L M W L L V L A V G G T E H A Y R P G R R V C A V R

deleted a T -goddarda 6/8/98^

deleted C -goddarda 6/8/98^

```
                                                                    tseI
              bsaXI                                   scrFI[M.hpaII-]
              tthlllI/aspI                            nciI    fnu4HI/bsoFI
              pflFI                                    nsp-    bbvI
              sau96I                                   hpaII   hpyCH4V
              nlaIV
              avaII                                    rlaIV   cac8I
              sanDI            tseI                     banI    haeIII/palI
              ppuMI    pfeI    fnu4HI/bsoFI             hpy99I  csaV  sfcI
              nlaIV    hpy188I bbvI                     bslI    bsp1286 sau96I[M.haeIII-]
              eco0109I/draII nlyI  hpyCH4V rsaI    hphI bmyI bss8KI pstI[M.H1-]   bslI
              osmFI   bsrAI  hlnFI bsgI    csp6I   mnlI bspMI

501 GCTCACGGGG ACCCTGTCTC CGAGTCGTTC GTGCAGCGTG TGTACCAGCC CTTCCTCACC ACCTGCGACG GGCACCGGGC CTGCAGCACC TACCGAACCA
    CGAGTGCCCC TGGGACAGAG GCTCAGCAAG CACGTCGCAC ACATGGTCGG GAAGGAGTGG TGGACGCTGC CCGTGGCCCG GACGTCGTGG ATGGCTTGGT
 35 A   H   G   D   P   V   S   E   S   F   V   Q   R   V   Y   Q   P   F   L   T   T   C   D   G   H   R   A   C   S   T   Y   R   T   I
```

```
                                                    sau96
                                                    nlaIV
                                                    scrFI[dcm
                                                    pspGI
                                          mvaI haeI
                                          ecoRII[dc
                                          dsaV[dcm-
                                          bstNI
                                          bssKI[dcm
              scrFI[dcm-]
  pspGI          stuI[dcm-]
  nvaI           scrFI[dcm-]
  ecoRII[dcm-]   pspGI
  dsaV[dcm-]     nvaI
  bstNI          ecoRII[dcm-]   thaI    nspI
  bssKI[dcm-]    dsaV[dcm-]     fnuDII/mvnI hpaII
  bslI           bstNI          bstUI tseI scrFI[M.hpaII-]
                 tseI bsaJI  sau96I[M.haeIII-]  bsh1236I  ncII     sau96I
                 fnu4HI/bsoFI  nlaIV  bssKI[dcm-]  mluI   mwoI dsaV   avaII  cac8I
  acII           acII   bsaJI  haeIII/palI haeIII/palI   fnu4HI/bsoFI   mnlI   aciI
  sau96I         fnu4HI/bsoFI  cac8I   apyI[dcm+]   aflIII bbvI bssKI   mboII   mspAII/nspBII ecoO10
  acII avaII  acII bbvI apyI[dcm+] bslII[dcm-] mnlI mwoI cac8I   bsaJI   earI/ksp632I   apyI[dcm+]
601 TCTATAGGAC CGCCTACCGC GGCTGGCCCT CGCTACCGCGT GCTGCCCCGG CTGGACGAGG ACCAGCGGGC TTCCTGGGGC
    AGATATCCTG GCGGATGGCG CCGACCGGGA GCGATGGCGCA CGACGGGGCC GACCTTCTCC TGGTCGCCCG AAGGACCCCG
 69  Y  R  I  A  Y  R   R  S  P  G  L  A  P  A  R  P  R  Y  A  C  C  P  G  W  K  R  T  S  G  L  P  G  A
^edit T to C, does not change aa -goddarda 6/9/98
```

```
                    tseI
                    mwoI
                    mwoI
                    fnu4HI/bsoFI
                    haeIII/pali
                    eaeI[dcm-]
                    cfrI  fnu4HI/bsoFI
                    scrFI[dcm-]        hpyCH4v
                    pspGI  bbvI  tseI  sfcI
                    mvaI   mspAII/nspBII  pstI
                    ecoRII[dcm-]  fnu4HI/bsoFI
                    dsaV[dcm-]  bbvI  sse8387I
                    bstNI  aciI  mspAII/nspBII      tsp45I
                    bssKI[dcm-]  aciI  sbfI  fckI  aciI  maeIII
                    apyI[dcm+]  fnu4HI/bsoFI  bstF5I  hphI        bs

701 CTGTGGAGCA GCAATTGCC AGCCGCCATG CCGGAACGGA GGGAGCTGTG TCCAGCCTGG CCGGCTGCCGCAG TGCCCTGCCAG GATGGCGGGG TGACACTTGC
    GACACCTCGT CGTTAACACGG TCGGCGGTAC GGCCTTGCCT CCCTCGACAC AGGTCGGACC GCCGACGGCG ACGGGACGTC CTACCGCCCC ACTGTGAACG

102 C  G  A   A  I  C  Q   P  P  C   R  N  G   G  S  C   V  Q  P   G  R  C  R   C  P  A  G   R  R  G   D  T  C

        tseI
        fnu4HI/bsoFI  fnu4HI/bsoFI
                                    mspI
        bbvI  cac8I  aciI  hpaII  mnlI  aluI
                           nlaIII


                                    alwNI[dcm-]
                                    mspI
              tseI                  hpaII      nlaIV
              fnu4HI/bsoFI          naeI/ngoMI  bsrI
              bbvI                  cfr10I/bsrFI banI  tspRI  bspi286
              hinPI  afaNI          cac8I  naeIII  bsrI  bmyI
              hhaI/cfoI  hpyCH4v    aciI  alw26I/bsmAI  bslI  mnlI
                    fnu4HI/bsoFI haeII  afeI/eco47III

                    bsmI  tspRI  mnlI
              fckI  btsI  naeI
        hpyl88I  bstF5I  hpyCH4v  bfaI  aciI  bsmFI

801 CAGTCAGATG TGGATGAATG CAGTGCCAGG AGGGGCGGCT GTCCCCAGCG CTGCATCAAC ACGGCCGGCA GTTACTGGTG CCAGTGTTGG GAGGGGCACA
    GTCAGTCTAC ACCTACTTAC GTCACGGTCC TCCCCGCCGA CAGGGGTCGC GACGTAGTTG TGCCGGCCGT CAATGACCAC GGTCACAACC CTCCCGTGT

135 Q  S  D  V  D  E  C  S  A  R  R  G  G  C  P  Q  R  C  I  N  T  A  G  S  Y  W  C  Q  C  W  E  G  H  S
```

GSeqEdit, DNA30943 [Full], page 8

```
                                                                                                    alu
                                                                                                    alw
                                                                           bsrDI                    mwoI
                                                                           hpyCH4V                  bstA
scrFI[dcm-]
pspGI
mvaI
ecoRII[dcm-]
dsaV[dcm-]
bstNI
sau96I[M.haeIII-]
nlaIV  bssKI[dcm-]
haeIII/palI
sau96I[M.haeIII-]
pspOMI/bsp120I
nlaIV  bsaJI
ecoO109I/draII
bsp1286I[M.haeIII-]
        styI  bmyI  apyI[dcm+]                                             tspRI    mboII  hpyCH
bslI  banII[M.haeIII-]   apaI  bsaJI  sau96I[M.haeIII-]                     bst4CI/hpyCH4III  bsgI
              draII                   ecoO109I/draII  nlaIV
hpyCH4V  rsaI  bsp1286  bmyI  bsaJI  bslI
  sfcI       csp6I        bslI        mnlI  bslI        haeIII/palI
  pstI  bst4CI/hpyCH4III

901 GCCTGTCTGC AGACGGTACA CTCTGTGTGC CCAAGGGAGG GCCCCCCAGG GTGGCCCCCA ACCCGACAGG AGTGGACAGT GCAATGAAGG AAGAAGTGCA
    CGGACAGACG TCTGCCATGT GAGACACACG GGTTCCCTCC CGGGGGGTCC CACCGGGGGT TGGGCTGTCC TCACCTGTCA CGTTACTTCC TTCTTCACGT

169  L  S  A  D  G  T  L  C  V  P  K  G  G  P  P  R  V  A  P  N  P  T  G  V  D  S  A  M  K  E  E  V  Q
```

```
                                          tseI                                                              sa
         scrFI[dcm-]                       mwoI                                                            mspI
         pspGI                        fnu4HI/bsoFI                                                         scrFI
         mvaI                             bstAPI                                   mwoI                     nciI
         ecoRII[dcm-]                      bbvI                          scrFI[dcm-]                        nlaIV  nl
         dsaV[dcm-]          hpyCH4V   sau96I[M.haeIII-]   haeIII/palI                        bpmI/gsuI[dcm-] hpaI
         bstNI                sfcI        nlaIV              pspGI       cac8I                            bsrI
  ssCI  bssKI[dcm-]           pstI[M.aluI-][M.H1-]           mvaI  bglI[M.haeIII-]                        bsp1286 av
  pstI[M.H1-]    ecoNI        tseI   aluI[M.pstI-]    hpyCH4V  eccRII[dcm-]                               bmyI dsaV
  tseI  bsaJI   bspMI        fnu4HI/bsoFI   haeIII/palI        dsaV[dcm-]              bsrI               banII bslI
  fnu4HI/bsoFI   sau96I  mnlI    bbvI  pvuII[M.H1-]    bsgI    bstNI mnlI alwNI[dcm-]                      nlaIII
  bbvI  apyI[dcm-] nsiI  bseRI   aluI[M.pstI-] cac8I   tspRI   bssKI[dcm-]            tspRI                      bssKI
  mnlI hpyCH4V   avaI:  bpmI/gsuI[dcm-]   mspAII/nspBII   btsI    apyI[dcm+] alw26I/bsmAI  nlaIII

100: GAGGCTGCAG TCCAGGGTGG ACCTCCTGCA GGGAGAAGCTG CAGCTGGTGC TGGCCCCACT GCACAGCCTG GCCTCGGCAGG CACTGGAGCA TGGGCTCCCG
     CTCCGACGTC AGGTCCCACC TGGACGACCT CCTCTTCGAC GTCGACCACG ACCGGGGTGA CGTGTCGGAC CGGAGCGTCC GTGACCTCGT ACCCGAGGGC
202  R   L   Q   S   R   V   D   L   E   E   K   L   Q   L   V   L   A   P   L   H   S   L   A   S   Q   A   L   E   H   G   L   P
```

bgiAI/aspEI
bspl286
bsiHKAI
bmyI
scrFI[dcm-]
tseI   pspGI
fnu4HI/bsoFI   aciI   mnlI
bbvI   mvaI hpyCH4V   fnu4HI/bsoFI   bseRI
nspI   ecoRII[dcm-]   ncrI   pleI   bpmI/gsuI[dcm-]   sau96I
hpaII   dsaV[dcm-]   eagI/xmaIII/eclXI   scrFI[dcm-]   avaII
scrFI[M.hpaII-] apaLI/snoI   eaeI   mlyI   pspGI   tseI
nciI   bstNI   aluI haeIII/palI   cac8I   mvaI   fnu4HI/bsoFI
dsaV   bssKI[dcm-]   tseI cfrI   hinfI[M.taqI-]   ecoRII[dcm-]   ppuMI
bssKI   apyI[dcm-]   fnu4HI/bsoFI   taqI   ddeI   dsaV[dcm-] pvuII[M.H.-]
dsaVI   mnlI alw44I/snoI   bbvI bsiEI sfaNI   bspCNI   bstNI   bbvI   nlaIV
                                                               bssKI[dcm-] aluI eco0109I/dr
                                                               apyI[dcm+] mspAlI/nspBII

1101: GACCCCGGCA GCCTCCTGGT GCACTCCTTC CAGCAGCTCG GCCGCATCGA CTCCCTGAGC GAGCAGATTT CCTTCCTGGA GGAGCAGCTG GGGTCCTGCT
      CTGGGGCCGT CGGAGGACCA CGTGAGGAAG GTCGTCGAGC CGGCGTAGCT GAGGGACTCG CTCGTCTAAA GGAAGGACCT CCTCGTCGAC CCCAGGACGA

235 D P G   A L L V   H S F   Q Q L   R I D   S L S   E Q I S   F L E   E Q L   G S C S

scrFI[dcm-]
pspGI
mval
ecoRII[dcm-]
dsaV[dcm-]
bstNI   mwoI   tseI
               bsp1286   fnu4HI/bsoFI
      bslI   bbvI
hpy88III   bmyI   hpyCH4V   nlaIII   hpy1
bssSI   mwoI bssKI[dcm-]   banII   sfcI   nspHI   sau96I
p_eI tsp45I hinPI apyI[dcm+]   aclI pstI[M.H1-] bstXI avaII
m_yI maeIII hhaI/cfoI   ddeI   fnu4HI/bsoFI nlaIII   mwoI nspI   nlaIV
hpyCH4V hinfI haeII bsaJI   bspCNI mnlI

1201 CCTGCAAGAA AGACTCGTGA CTGCCCAGCG CCCCAGGCTG GACTGAGCCC CTCACGCCGC CCTGCAGCCC CCATGCCCCT GCCCAACATG CTGGGGGTCC
     GGACGTTCTT TCTGAGCACT GACGGGTCGC GGGGTCCGAC CTGACTCGGG GAGTGCGGCG GGACGTCGGG GGTACGGGGA CGGGTTGTAC GACCCCCAGG

269 C R K D S O

```
scrFI[dcm-]                    scrFI[dcm-]
pspGI      haeIII/palI         pspGI
mvaI       sau96I[M.haeIII-]   mvaI
ecoRII[dcm-]                   ecoRII[dcm-]
dsaV[dcm-]            earI/ksp632I        dsaV[dcm-]
bstNI  ecoO109I/draII                     bstNI
bssKI[dcm-]        mnlI   bseRI    hpy188III   bssKI[dcm-]
                                  alwNI[dcm-]  bslI[dcm-]
apyI[dcm+]         bseRI     mnlI    mrlI      apyI[dcm+]
                            alw26I/bsmAI  fokI
haeIII/palI   mnlI mboII mnlI bslI bsaJI mnlI  bslI
                    pflMI[dcm-]   nlaIV  bstF5I
              bslI[dcm-]    nlaIII         bsaJI

avaI
mnlI    tsp45I   aciI
bsaJI   maeIII  bsrBI
bslI    hpaI  bspCNI

1301 AGAAGCCACC TCGGGGTGAC TGAGCGGAAG GCCAGGCAGG GCCTTCCTCC TCTTCCTCCT CCCCTTCCTC
     TCTTCGGTGG AGCCCCACTG ACTCGCCTTC CGGTCCGTCC CGGAAGGAGG AGAAGGAGGA GGGAAGGAGG
                                                              CCCTCCGAGG GGGAGGCTCC
                                                                         GGGAGGCTCC
                                                                         CCAGACCCTG GCATGGGATG
                                                                         GGTCTGGGAC CGTACCCTAC

              ^edit T to C -goddara 6/8/98

                 ^deleted a C -goddara 6/8/98^

              edit G to C -goddarda 6/8/98^
```

sau96I[M.haeIII-]
haeIII/palI
sau96I[M.haeIII-]
pspOMI/bsp120I
nlaIV

scrFI[dcm-]

pspGI   ecoO109I/draII
mvaI   bsp1286I[M.haeIII-]   ss
ecoRII[dcm-]   sa

dsaV[dcm-]   cg

bstNI   bmyI   ddeI[M.aluI-]   ec
bssKI[dcm-]   bspCNI   bs

mwoI   banII[M.haeIII-]   bs
sfiI[dcm-]   pvuII   bm

foxI styI bglII[M.haeIII-] mspAlI/napBII   ba

bstF5I   haeIII/palI   ddeI[M.aluI-]   bcg

sfaNI bslI[dcm-]   apaI bspCNI mnlI   rsaI

bceAI   bsaJI apyI[dcm+] mnlI aluI   csp6I

---

nlaIV
kpnI
banI
asp718

scrFI[dcm-]
pspGI

scrFI[dcm-]   mvaI rsaI
pspGI   ecoRII[dcm-]
mvaI   dsaV[dcm-]
ecoRII[dcm-]   bstNI
dsaV[dcm-]   bssKI[dcm-]
bstNI   bsaJI
bssKI[dcm-]   apyI[dcm+]
apyI[dcm+] bslI bsaJI csp6I
bslI[dcm-] acc65I

mboII
sau3AI
mboI/ndeII[dam-]
dpnII[dam-]
dpnI[dam+]
bstYI/xhoII   tfiI
alwI[dam-]   hinfI   bsaJI

1401 GGCTGGGATC TTCTCGTGA ATCCACCCT GGCTACCCCC ACCCTGGGTA CCCCAACGGC ATCCCAAGGC CAGGTGGGCC CTCAGCTGAG GGAAGGTACG
     CCGACCCTAG AAGAGACACT TAGGTGGGGA CCGATGGGGG TGGGACCCAT GGGGTTGCCG TAGGGTTCCG GTCCACCCGG GAGTCGACTC CCTTCCATGC

^edit T to C -goddarda 6/8/98
  ^edit T to C -goddarda 6/8/98
    ^edit T to C -goddarda 6/8/98

```
                                                                              tspRI

                                                                              tdeI
                           mspI                                         mnlI        tseI
               tseI hpaII                                               bslI        fnu4HI/bsoFI
               fnu4HI/bsoFI                                             haeIII/palI tseI
scrFI[dcm-]    bbvI scrFI[M.hpaII-]                          sau96I[M.haeIII-] bbvI
pspGI  nlaIII  scrFI[dcm-]                                   nlaIV bspCNI       fnu4HI/bsoFI
mvaI   styI    pspGI nciI                                    ecoO109I/draII     bbvI
sau96I         ecoRII[dcm-]
nlaIV          dsaV[dcm-]    mvaI  dsaV
avaII          bstNI  ncoI   ecoRII[dcm-]
sanDI          bssKI[dcm-]   dsaV[dcm-]
ppuMI          bsaJI  dsaI   bstNI  bssKI
nlaIV          apyI[dcm+]    bssKI[dcm-]  mnlI
ecoO109I/draII         nlaIV bsnFI btgI/bstDSI  apyI[dcm+]  bsaXI
aluI  bpmI/gsuI[dcm-] bsaJI  haeIII/palI bslI

1501 AGCTCCCTGC TGGAGCCTGG GACCCATGGC ACAGCCGGAG GCTGGGTGGG GCCTCAGTGG GGGCTGCTGC CTGACCCCCA GCACAATAAA
     TCGAGGGACG ACCTCGGACC CTGGGTACCG TGTCCGGTCC GTCGGGCCTC CGACCCACCC CGGAGTCACC CCCGACGACG GACTGGGGGT CGTGTTATTT

        ^edit T to C -goddarda 6/8/98

           ^deleted a C -goddarda 6/8/98
```

```
                                                                    rmaI
                                                                    naeI
                                                              pleI
                                                              acii nlyI
                                                    fnu4HI/bsoFI                              sa
                                                    haeIII/palI                              styI
                                                                                        aciI  ha
                                        mcrI    hinfI      taqI                        mwoI nlaII
                                        eagI/xmaIII/eciXI saiI    hpyCH4V          fnu4HI/bso
                                        eaeI thaI  xbaI pleI      sfcI             sfiI ncoI[M
                                        cfrI fnuDII/mvnI hincII/hindIII[M.taqI-]    dsaI
                                        bsiEI  drdI  nlyI   pstI        eaeI      btgI/b
                                        notI bstUI hpy188III bspMI        cfrI    bsaJI
                                        fnu4HI/bsoFI bfaI  accI[M.taqI-j aluI haeIII/palI
                                        aciI bsh1236I  hinfI[M.taqI-] hindIII bglII[M.hae
```

```
         tail
         naeII/hpyCH4IV
1601 AATGAAACGT GAAAAAAAAA AAAAAAAAAA AAAAAAAAAA AAAGGGCGGC CGGGACTCTA GAGTCGACCT GCAGAAGCTT GGCCGGCCA2G
     TTACTTTGCA CTTTTTTTTT T-TTTTTTTT TTTTTTTTTT TTTCCCGCCG GCCCTGAGAT CTCAGCTGGA CGTCTTCGAA CCGGCCGGTAC
```

```
              aluI
              tseI
              fnu4HI/bsoFI
              bbvI  psiI
              hpyCH4V      maeIII
1701 GCCCAACTTG TTTATTGCAG CTTATAATGG TTACAAAT
     CGGGTTGAAC AAATAACGTC GAATATTACC AATGTTTA
```

1447

> Length: 1738

acc65I (GGTACC):

GENE GENES

⊙ Find ○ New ○ Update

SELECT ▼ [   ] GO

DNA30943

DNA Info	Project DNA28735
Is Primarydna	☐
Source Info	187 FLS 339 LIB25 RNA22 SRC18 Human Fetal Lung
Gene Info	PRO213 Human Egfl7 (VEMF) Non-Secreted UNQ187

Gene Annotation

Genome Mapping Run Geode

Affy	HGU133A 218825_at
	HGU133P 218825_at
	HGU95C 48695_at
	Hu35KA R39467_f_at
	Hu35KC RC_N74688_f_at
	Hu35KD RC_N70081_at
	HuGenen1 NM_016215_at
	MOE430A 1421335_a_at, 1435823_x_at, 1451427_a_at, 1451428_x_at
	MOE430P 1421335_a_at, 1435823_x_at, 1451427_a_at, 1451428_x_at
	Rat230v2 1370402_at, 1374570_at, 1393427_s_at

Agilent	H1Av2 A_23_P123785
	H1A A_23_P123785
	H1Av2 A_23_P123785
	H1B A_32_P210642, A_32_P300230
	M1A A_51_P315841
	WHG A_32_P210642

FANTOM	Mouse:0610012G11
GenBank	Human:AB125649, AF186111, AL512735, AY358901, AY358902, AY358903, BC012377 Mouse:AF184973, AK002601, AY239289, AY239290, AY309459, BC024610
GeneHub	Human:GENE7437 Mouse:MGENE1470
INCYFL	Human:931424.FL1_0, 931424.FL3_0
Incyte	Human:416842.1, 416842.13, 416842.17, 416842.56, 416842.58, 416842.62, 416842.64, 416842.67, 416842.68 416842.69, 416842.70, 416842.72, 416842.74, 984053.1
LocusLink	Human:51162 Mouse:353156
MGI	Mouse:2449923
OMIM	Human:608582
Proteome	Human:NP_958854.1 Mouse:NP_942017.1
RefSeq	Human:NM_016215, NM_201446 Mouse:NM_178444, NM_198724, NM_198725
UniGene	Human:Hs.91481 Mouse:Mm.268933

General Info

Lab Name	28735.2	Insert (Digest) Size(bp)	1600
Insert Name	undeterminated	Reverse Size(bp)	1
Generated By	Full Length Screen	Internal Size(bp)	239
Type of DNA	FLS	Cut Size(bp)	
Insert ID	Novel	Vector	
Action	Drp Not FL	Interest	not reviewed
Concentration		Origene Cloneid	
Origene Plate		Origene Well	

Construct Info

Tag	–	Exp System	
Bases to Sequence		Sequence Status	

Antibody Info No antibody info

Other Info ☐ In Situ image available ☐ TaqMan Hit ☐ Transgenic Animal Model

OLI5288
OLI5289
OLI5290
OLI5572   30943.f1
OLI5573   30943.f2
Oligos OLI7839   30943.tm.f1
OLI7840   30943.tm.r1
OLI7841   30943.tm.p1
OLI7845   30943.tm.f3
OLI7846   30943.tm.r3
OLI7847   30943.tm.p3

Comments

Login	Date Entered	Annotation
dtb		homolog to an unknown human protein and to gas6. The mouse protein with 40 % identity clearly has a signal sequence wheras this clone does not. I think the clone is suspect.-ALG
goddarda		Sequencing in clone 64908 allowed us to correct three sequencing errors in 30943 which lie in the 5' UTR of the gene. However the presence of these errors caused us to identify the wrong 5' end of the ORF in the gene. -goddarda
goddarda		Sequence was flagged as poor quality during proofreading. Tried to rerun reactions with Big DYE chemistry, but too little DNA - signal unreadable. Requested more DNA 2/98. Never received -goddarda
goddarda		amplifiedcolon tumors and to a lesser extent in lung tumors- TaqMan assay
jean		Clone 30943 from plasmid inventory plate is verified correct through partial sequencing

Legal Status No legal status
Status
Scientist Daryl Baldwin   Date Entered
Notebook 0   Date Updated February 14, 2003
Page   Date Completed
Storage Location   Date Canceled
Box   Cancel Reason
Slot   Clone Status not reviewed
Inventory Status   Sequence Status

Others ☐ Sent to pLASMID Archive
       ☐ Clone Verified

Project Member
No Project member generated

FLS FLSDNA
No FLS, FLSDNA generated

Exp Construct

EXP	Lab Name	Construct DNA	System
EXP7559	Protein Engineering	DNA346527	Baculovirus

ABI

ABI Run.Lane	Date Sequenced	ABI Plate
ABI512.31	04/07/1997	
ABI512.32	04/07/1997	
ABI512.33	04/07/1997	
ABI512.34	04/07/1997	
ABI512.35	04/07/1997	
ABI812.30	10/06/1997	
ABI812.31	10/06/1997	
ABI1055.40	02/10/1998	
ABI1055.41	02/10/1998	
ABI2530.13	02/11/2000	1252

MA Plate

MA Plate	Well Num	Well Location	Date	Tyep Plate
PLT129	25	C1	08/11/1999	Inventory

Print Run
No Print run generated

XPT